

ABSTRACT OF DISCLOSURE

Disclosed is a nickel-base super heat resistant cast alloy, from which turbine wheels of automobile engines can be manufacture by casting. The alloy consists essentially of, by weight %, C: 0.02-0.50%, Si: up to 1.0%, Mn: up to 1.0%, Cr: 4.0-10.0%, Al: 2.0-8.0%, Co: up to 15.0%, W: 8.0-16.0%, Ta: 2.0-8.0%, Ti: up to 3.0%, Zr: 0.001-0.200% and B: 0.005-0.300% and the balance of Ni and inevitable impurities, provided that, [%Al]+[%Ti]+[%Ta], by atomic %, amounts to 12.0-15.5%, that it contains γ/γ' -eutectoid of, by area percentage, 1-15%, that it contains carbides of, by area percentage, 1-10%, and that the "M-value" determined by the alloy composition is in the range of 93-98. The turbine wheels withstand temperature increase of exhaust gas.